

BEGIN

REEL NUMBER
66
FROM
BORUSOVA, T.Y.

BORUSOVA, T. Y., and NIKOLAYEV, G. P.

"Dielectric measurements on polyamides," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 25 Jan-2 Feb 57, Moscow, Fiber Research Inst.

B-3,084,395

BORUSZKOWSKI, B., mgr

Advantages of the application of steel lining in the
Wieczorek mine. Wiadom gorn 14 no.1:7-10 Ja '63.

BORUSZKOWSKI, Benjamin, mgr

Advantages of applying carrying rope constructions in band
conveyers of the Wieczorek mine. Wiadom gorn 15 no.1:10-12
Ja '64.

BORUSZKOWSKI, Benjamin, mgr

Supervised consumption of materials at workplaces in the Wieczorek mine. Wiadom gorn 16 no.4:119-122 Ap '65.

BORUTSKAYA, I.

Contributions of scientists to school children. Zdorov'e 6 no.10:
23 0 '60.

(MIRA 13:9)

(SCHOOL HYGIENE)

BORUTSKAYA, I.

Book of general interest ("Book on health," edited by D.A.
Zhdanov. Reviewed by I. Borutskaya). Nauka i zhizn' 27 no.3:
73-74 Mr '60. (MIRA 13:6)
(Hygiene) (Zhdanov D.A.)

BORUTSKAYA, I.

Universal "microbe library". Nauka i zhizn' 27 no.7:77-78 J1 '60.
(MIRA 13:7)

(MICROBIOLOGICAL RESEARCH)

BORUTSKAYA, I. (Stanitsa Goryachevodskaya, Stavropol'skiy kray)

School children go out into the field. Zdorov'e 7 no. 5:23 My '61.
(MIRA 14:4)

(STAVROPOL TERRITORY--CHILDREN--EMPLOYMENT)

BORUTSKAYA, I.

Heroic treatment; Zdorov'e 7 no.10:18-19 0 '61.
(ARTIFICIAL RESPIRATION)

(MIRA 14:10)

BORUTSKAYA, I.

Serum diagnosis. Nauka i zhizn' 28 no.4:78-79 Ap '61.
(MIRA 14:5)

(SERUM DIAGNOSIS)

BORUTSKAYA, Ilya

Leningrad citizens said No! to diseases. Zdorov'e 8 no.11:6-7
N '62. (MIRA 15:10)

(~~LENINGRAD--CHILDREN--CARE AND HYGIENE~~)

BORUTSKAYA, Ilya

School in the fresh air. Zdrov'e 9 no.2:16-17 P '63.

(MIRA 16:3)

(ESTONIA--OPEN-AIR SCHOOLS) (ESTONIA--TUBERCULOSIS)

ZUBOVA, Z.F.; CORDIYENKO, N.M.; BORUTSKAYA, T.R.

Determination of antibodies to Coxsackie and ECHO viruses
by color test and cytopathic action. Vop. virus 8 no.1:104-
108 Ja-F'63. (MIRA 16:6)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh
preparatov.

(COXSACKIE VIRUSES) (ECHO VIRUSES)
(ANTIGENS AND ANTIBODIES)

ZUBOVA, Z.F.; GAVRILOV, V.I.; KUBORINA, L.N.; BORUTEKAYA, T.R.; GORDIYENKO, N.M.

Selection of ECHO virus strains for the preparation of type-specific rabbit serums. Vop. virus 8 no.2:213-217 Mr-Ap '63
(MIRA 16:12)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov i Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov imeni L.A.Tarasevicha, Moskva.

BORUTSKIY, YE. V.

PA 60T63

USSR/Medicine - Taxonomy
Medicine - Crayfish

Dec 1947

"New Type of Epischura From the Amur River Basin
(Epischura Udyensis Sp.N., Copepoda--Calanoida),"
Ye. V. Borutskiy, Zool Museum, Moscow State U imeni
M. V. Lomonosov, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 7

Describes newly discovered crayfish of order Epis-
chura found by Amur Ichthyological Expedition of
Academy of Sciences, USSR. Submitted by Academi-
cian I. I. Shmal'gauzen, 11 Jul 1947.

60T63

РЕНДЕННИЙ. П.В.

Мбр., Zoology Museum, Moscow State University Im. M.V. Lomonosov, -1947-.

"Material on Baykal Fauna Copepoda, Harpacticoida, Genus *Canthocamptus* Westoodk"
Dok. AN, 58, no.8, 1947

"The Fauna Copepoda Harpacticoida Epiphytic Micro-Hydrocotyles,"
Dok. AN, 58, no.9, 1947

BORUTSKIY, Ye. V.

Borutskiy, Ye. V. - "On the fauna of spring Isopoda of Central Asia," I. V. Borutskiy:
Pamyati Akad. S. A. Zernova, Moscow-Leningrad, 1948, p. 27-28 - Ill. in: Zvezda

SO: U-3600, 10 July 53. (Letopis 'Zhurnal Inyid Stroy, No. 6, 1949).

USSR/Biology

Jul/Aug 48

Fauna

Copepoda

"Copepoda Harpacticoida of the Caucasian Caverns,"
E. V. Borutskiy, 10 pp

"Byul Mosk Obshch Ispytat Prirod, Otdel Biol"
Vol LIII, No 4

Results of work done on Harpacticoida collected by
Ya. A. Birshteyn in caverns along Black Sea shores
during his tour in winter 1943. In addition to
normal types of Caucasian fauna, following new types
were discovered: (1) *Bryocampus tetmogradskyi*

60/49T7

USSR/Biology (Contd)

Jul/Aug 48

Borutsky, (2) *Bryocampus caucasicus* Borutsky,
(3) *Bryocampus reductus* sp. n., (4) *Elaphoidella*
birsteini sp. n., (5) *Moriria cornuta* sp. n.,
(6) *Moriria operculata* sp. n., (7) *Attheyella*
(*Attheyella*) *crassa* G. O. Sars., and (8) *Parasten-*
ocaris tenuis sp. n. Describes each type in detail.

60/49T7

BORUTSKIY, YE. V.

1A 51T39

USSR/Medicine - Biology
Medicine - Taxonomy

21 Mar 1948

"Material on the Copepoda Harpacticoida Fauna of Baykal: Genus Bryocamptus Chappuis," Ye. V. Borutskiy, Zool Mus, Moscow State U imeni M. L. Lomonosov, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 9

Tabulates characteristics of three new-type Baykal Bryocamptus: 1) Bryocamptus (Pentacamptus) tuberculatus sp. n., 2) Bryocamptus (Pentacamptus) chappuisi sp. n., and 3) Bryocamptus (Pentacamptus) cokeri sp. n., based on properties common to all Baykal Bryocamptus. Submitted by Academician I. I. Smal'gauzen, 27 Jan 1948.

51T39

USSR/Medicine - Biology
Medicine - Taxonomy

Jun 48

"Data on the Copepoda-Harpacticoida Fauna of Lake Baykal. Fauna of the Shore Littered Area," Ye. V. Borutskiy, Zool Museum, Moscow State U imeni M. V. Lomonosov, 3 $\frac{1}{4}$ pp

"Dok Ak Nauk SSSR" Vol LX, No 9

Fauna discussed differs from that of rest of lake in that it is almost entirely composed of genera and species common to whole of Siberia. Tabulates species, giving date and place of discovery. Sketches show distinguishing features of new species *Bryocamptus* (*Rheocamptus*) *brevipes*.

6/4952

BORUISKIY, YE. V.

33939. Izmeneniye Zaroslyey Makrofitov V Byelom Ozyerye V Kosinye S 1803 Po 1938 G. Trudy Vsesoyuz. Gidrobiol. O-va, T. 1, 1949, S. 44-56. -- Bibliogr: 7 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

BORUTSKIY, Ye. V.

FA 29/49T60

USSR/Medicine - Taxonomy
Medicine - Zoology

Feb 49

"Data on the Copepod Fauna, Harpacticoida of Baykal
Genus Moraria," Ye. V. Borutskiy, Zool Mus, Moscow
State U imeni M. V. Lomonosov, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 6

Baykal representatives of the Moraria genus have
special characteristics which permit classification
into the subclass Baicalomoraria, which is further
divided into two groups according to the construction
of endopodites, P_2 and P_3 of males. Describes four
forms of the second group. Submitted by Acad L. S.
Berg, 14 Dec 48.

29/49T60

BORUTSKIY, YE.V.

Life cycle and seasonal migrations of crustacean plankton in lakes. Cycle and migration of *Diaptomys graciloides* in Lake Beloye (Kosino).
Trudy Gidrobiol. obshch. 3, 1951

BORUTSKIY, YE.V.

Fauna of land isopoda of Azerbaijan, Sbor. trud. Zool. muz. 7, 1951

BCRUTSKIY, YE.V.

Geographic distribution of copepoda
Sbor. trud. Zool. muz. 7:154-161 1951

BORUTSKIY, YE.V.

"Fresh-water crustaceans (Asellota)." by YA.A. Birshteyn

Reviewed by YE.V. Borutskiy

Zool. zhur. 31 no.4, 1952

1. BORITSKIY, Ye. V.
2. USSR (600)
4. Dredging (Biology)
7. Priority in quantitative investigations of the benthos, Zool. zhur., 31, No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

BOBUTSKIY, Ye.V.; KLYUCHEVA, O.A.; NIKOL'SKIY, G.V.

~~BOBUTSKIY, Ye.V.~~
Benthonic invertebrates (zoobenthos) of the Amur basin and their role
in the nutrition of the Amur fishes. Mat. k pozn. fauny i flory SSSR.
Otd. zool. no.32:5-139 '52. (MIRA 11:4)

1. Laboratoriya ikhtiologii i Zoologicheskoy muzey Moskovskogo
gosudarstvennogo universiteta.
(Amur Valley—Fresh-water fauna) (Fishes—Food)

BORUTSKIY, Ye. V.

Seston of the Amur basin and its role in the nutrition of the Amur fishes. Mat. k pozn. fauny i flory SSSR. Otd. zool. no. 32:141-228
'52. (MIRA 11:4)

1. Zoologicheskiy musey Moskovskogo gosudarstvennogo universiteta.
(Amur Valley--Plankton) (Fishes--Food)

~~BOGITSKIY, Ye.V.~~

Materials on the food of *Gtenopharyngodon idella* Val. and *Plagio-*
gnathops microlepis Bl. in the Amur Basin. Mat. k pozn. fauny i
flory SSSR. Otd. zool. no.32:505-511 '52. (MIRA 11:4)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta.
(Amur Valley--Carp) (Fishes--Food)

BORUTSKIY, Ye. V.

New species of Schizopera (Copepoda, Harpacticoida) from the Caspian Sea.
Zool. zhur. 32 no. 5: 848-852 S-O '53. (MLRA 6:10)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta im. M. V.
Lomonosova. (Caspian Sea--Copepoda) (Copepoda--Caspian Sea)

BORUTSKIY, Ye.V.

New species of *Diaptomus* (Copepoda, Calanoida) from Kamchatka lakes. Biul.
MOIP Otd.biol. 58 no.4:47-49 '53. (MLRA 6:11)
(Kamchatka--Copepoda) (Copepoda--Kamchatka)

BORUTSKIY, Ye.V.

~~NEW SPECIES OF THE GENUS HEMILEPISTUS~~
New species of the genus *Hemilepistus* (*Isopoda terrestria*) from
eastern Kazakhstan. *Zool.shur.* 33 no.2:477-479 Mr-Apr '54. (*MIRA* 7:5)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta im.
M.V.Lomonosova. (Kazakhstan--Isopoda) (*Isopoda--Kazakhstan*)

SKADOVSKIY, S.N., professor; BORUTSKIY, Ye.V., redaktor; KOHOLEVA, L.,
tekhnicheskiiy redaktor. ~~_____~~

[Ecological physiology of aquatic organisms] Ekologicheskaya
fiziologiya vodnykh organizmov. Moskva, Gos.izd-vo "Sovetskaya
nauka," 1955. 337 p. (MLRA 8:11)
(Marine biology) (Fresh-water biology) (Geology)

BORUTSKIY, Ye.V.

~~www.Russia.net~~
New trap for quantitative recording of chironomid emergence.
Trudy Gidrobiol.ob-va no.6:223-226 '55. (MLBA 8:9)

1. Zoologicheskii muzey Moskovskogo gosudarstvennogo universiteta
imeni M.V.Lomonosova.

(Flies)

BORUTSKIY, Ye.V.

New species of *Ligidium* (*Isopoda terrestria*) from Middle Asia; Report
no. 11 on land Isopoda in the U.S.S.R. *Biul. MOIP. Otd. Biol.* 60 no.1:
59-62 Ja-F '55. (MIRA 8:7)
(Isopoda)

BORUTSKIY, Ye.V.; VINOGRADOV, M.Ye.

Occurrence of Cyclopidae (*Acanthocyclops mirnyi*, sp.n.) on the Antarctic Continent [with summary in English]. Zool. zhur. 36 no.2:199-203 F '57. (MIRA 10:6)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta i Institut okeanologii Akademii nauk SSSR.
(Queen Mary Coast--Copepoda)

BORUTSKIY, Ye.V.

Terrestrial isopods in the southeast of the European part of
the U.S.S.R. [with summary in English]. Zool.zhur. 36 no.3:360-372
Mr '57. (MLRA 10:5)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta
im. M.V. Lomonosova.

(Isopoda)

BORUTSKIY, Ye.V.

Method of establishing size and weight characteristics of invertebrate
organisms serving as feed of fish. Vop. ikht. no.11:181-187 '58.
(MIRA 12:1)

1.Laboratoriya ikhtiologii Instituta morfologii zhivotnykh
AN SSSR.

(Fishes--Feed)

BORUTSKIY, Ye.V.

Soil wood lice of the subgenus *Hemilepistus* (s.str.); biology and systematics [with summary in English]. Zool.zhur. 37 no.10:1462-1475 0 '58. (MIRA 11:11)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta.
(Wood lice)

BORUTSKIY, Ye.V.

Method of determining size and weight characteristics of invertebrate organisms serving as food of fishes. Report No.2. Vop. ikht. no.12:158-164 '59. (MIRA 13:4)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh AN SSSR.
(Fishes--Food) (Mollusks) (Hydrobiological research)

BORUTSKIY, Ye.V.

Materials on terrestrial isopoda (Isopoda terrestria) of the
Kirghiz S.S.R. Zool.zhur. 38 no.7:1006-1017 J1 '59.
(MIRA 12:10)

1. Zoological Museum of Moscow State University.
(Kirghizistan--Isopoda)

BORUTSKIY, Ye.V.

Crustaceans of the Mongolian People's Republic. Pt. 1: Copepoda,
Calanoida. Biul.MOIP.Otd.biol. 64 no.1:43-49 Ja-^F '59.
(MIRA 12:7)

(Mongolia--Copepoda)

BORUTSKIY, Yevgeniy Vladimirovich; PAVLOVSKIY, Ye.N., akademik, otv.red.;
GAYEVSKAYA, N.S., doktor biolog.nauk, otv.red.; BOGDANOV, A.I.,
red.isd-va; DOROKHINA, I., tekhn.red.

[Key for the identification of free-living fresh-water copepods
of the U.S.S.R. and adjacent countries by fragments found in the
intestines of fishes] Opredeletel' svobodnozhivushchikh pres-
novodnykh veslonogikh rakov SSSR i sopredel'nykh stran po frag-
mentam v kishechnikakh ryb. Moskva, Izd-vo Akad.nauk SSSR, 1960.
117 p. (MIRA 14:1)

(Copepoda--Identification)
(Fishes--Food)

BORUTSKIY, Ye.V.

Method of determining size and weight characteristics of organisms serving as food of fishes. Report No.3: Determining the larval size of crustaceans by egg-bearing females of free-living freshwater copepods. Vop.ikht. no.14:182-194 '60. (MIRA 13:8)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh im. A.M. Severtsova. Akademii nauk SSSR.
(Copepoda) (Fishes--Food)

BAY GO-DUN [Pai Kuo-tung]; VAN CHEN'-LIN' [Wang Ch'ên-lin]; VAN SHI-DA
[Wang Shih-ta]; GE MIN'-SHEN [Ko Min-shêng]; LYU' TSYUAN'-ZHUY [Liu
Ch'üan-zhuy]; CHEN SHOU-TSZUN [Ch'êng Sou-tsung]; USEN-VEN' [Wu
Sêng-wên]; BORUTSKII, Ye.V.

Hydrobiological and ichthyological investigations in the Yangtze and
Han Rivers in connection with hydro developments in the basin of the
Yangtze River, Chinese People's Republic. Zool. zhur. 39 no.8:1121-1134
Ag '60. (MIRA 13:8)

1. Gidrobiologicheskii institut Akademii nauk Kitaya, Uchan i Institut
morfologii zhivotnykh Akademii nauk SSSR, Moskva.
(Yangtze Valley--Fisheries--Research)
(Han Valley--Fisheries--Research)

PAVLOVSKIY, Ye.N., akademik, otv.red.; ~~BORUTSKIY~~, Ye.V., doktor biolog.
nauk, zam.otv.red.; SABLINA, T.B., red.isd-vs; NOVICHKOVA, N.D.,
tekhn.red.

[Manual for the study of the feeding habits of fishes under natural
conditions] Rukovodstvo po izucheniiu pitaniia ryb v estestven-
nykh usloviakh. Moskva, Izd-vo Akad.nauk SSSR, 1961. 261 p.
(MIRA 14:4)

1. Akademiya nauk SSSR. Ikhtiologicheskaya komissiya. 2. Institut
morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR (for
Borutskiy).

(Fishes--Food) (Ichthyological research)

BORUTSKIY, Ye.V.

New calanid Copepoda of the Far East. Sbor. trud. Zool. muz.
MGU 8:3-19 '61. (MIRA 15:5)
(Soviet Far East---Calanoida)

BORUTSKIY, Ye.V.

Wood lice (Crustacea; Isopoda terrestria) of Turkmenistan.
Sbor. trud. Zool. muz. MGU 8:21-27 '61. (MIRA 15:5)
(Turkmenistan--Wood lice)

BGRUTSKIY, Ye.V.

New and little known species of the genus *Cylisticus* (Isopoda
terrestria) of the U. S. S. R. Sbor. trud. Zool. mss. MGU
8:29-46 '61. (MIRA 15:5)

(Wood lice)

BORUTSKIY, Ye.V.

Food supply and its availability to fishes. Trudy sov. Ikht.
kom. no.13:67-77 '61. (MIRA 14:8)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh
AN SSSR.

(Fishes—Food)

BORUTSKIY, Ye.V.; GIRSA, I.I.

The technique of determining the size-weight characteristics of invertebrate organisms serving as food of fishes. Vop. ikht. no.17: 150-158 '61. (MIRA 14:5)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh AN SSSR.
(Amphipoda) (Marine biology—Research)

BORUTSKIY, Ye.V.; GIRSA, I.I.

The technique of determining the size-weight characteristics of invertebrate organisms serving as food of fishes. Report No.5: Length-weight (live, raw, dry)-size relationships of labia in larvae of some dragonfly species. Vop.ikht. 1 no.2:354-362 '61.
(MIRA 14:6)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh imeni A.N.Severtsova Akademii nauk SSSR, Moskva.
(Fishes--Food) (Larvae--Insects) (Dragonflies)

BORUTSKIY, Ye.V.

Fauna of terrestrial isopods (Isopoda terrestria) in the caves of
the Crimea from the point of view of zoogeography. Zool. zhur.
41 no.2:193-202 F '62. (MIRA 15:4)

1. Zoological Museum of the State University of Moscow.
(Crimea--Isopoda)

BORUTSKIY, Ye. V.; CHERNYAYEV, Zh. A.

"Continental fisheries; biology and management" by Richard Vibert and Carl F. Lagler. Reviewed by E. V. Borutskii, Zh. A. Cherniaev. Vop. ikht. 2 no.3:565-569 '62.

(MIRA 15:10)

(Fisheries) (Vibert, Richard) (Lagler, Carl F.)

BORUTSKIY, Ye. V.; KARZINKIN, G. S.

Scientific conference dedicated to the study of inland bodies
of water in Georgia. Vop. ikht. 2 no.3:570-571 '62.
(MIRA 15:10)

(Georgia—Fisheries—Congresses)

BORUTSKIY, Ye.V.

New data on Acanthocyclops mirnyi Borutzky et M.Vinogradov from
the Antarctic. Zool.zhur. 41 no.7:1106-1107 J1 '62.
(MIRA 15:11)

1. Zoological Museum, Moscow University.
(Antarctic regions—Cyclopidae)

BORUTSKIY, Ye.V.

Emergence of Chironomidae (Diptera) from the continental bodies of water of various climatic zones as a factor determining the food supply of fishes. Zool. zhur. 42 no.2:233-247 '63. (MIRA 16:3)

1. Department of Ichthyology, State University of Moscow.
(Chironomidae) (Fishes--Food)

BORUTSKIY, Ye. V.

First find of a troglobiont of Calanoida (Crustacea, Copepoda)
in subterraneous waters. Dokl. AN SSSR 147 no.6:1499-1502
D '62. (MIRA 16:1)

1. Zoologicheskii muzey Moskovskogo gosudarstvennogo universi-
teta im. M. V. Lomonosova. Predstavleno akademikom Ye. N.
Pavlovskim.

(Crimea---Cave fauna) (Crimea---Calanoida)

NIKOL'SKIY, G.V.; PIROZHNIKOV, P.L.; BORUTSKIY, Ye.V.

Seventh Plenum of the Commission on the Exploration of Fisheries
in the western part of the Pacific Ocean. Vop.ikht. 3 no.1:203-
205 '63. (MIRA 16:2)

(Pacific Ocean--Fisheries--Congresses)

BORUTSKIY, Ye. B.

Genus *Speocyclops* Kiefer (Copepoda, Cyclopoida). Zool. zhur. 44
no. 6:833-843 '65. (MIRA 13:10)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta.

BORUVKA, O.

Borůvka, O. Gruppoidentheorie. I. Publ. Fac. Sci. Univ.
Masaryk 1939, no. 275, 17 pp. (1939). (Czech. German
summary)

Unter einem Gruppoid verstehe ich den Inbegriff einer
nicht leeren Menge G und einer Multiplikation in G . Die
Kenntnis der Gruppoidentheorie gestattet begreiflich einen
tieferen Einblick in die Struktur der gruppentheoretischen
Sätze und lässt insbesondere den Einfluss der die Eigen-
schaften der Multiplikation beschreibenden Gruppenaxiome
auf dieselben erkennen. In diesem ersten Teile handelt es
sich um vorbereitende Betrachtungen über Zerlegungen von
Mengen und um die wichtigsten allgemeinen Begriffe und
Sätze über Gruppoids. Insbesondere wird hier eine Theorie
der homomorphen Abbildungen von Gruppoiden dargestellt.

From the author's summary.

Source: Mathematical Reviews.

Vol. 8, No. 1

Group

Set

Bordák, O. On decompositions of sets. Rozprawy II. Filoz. Česko-Akad. 53, no. 23, 26 pp. (1943). (Czech)
 Bordák, O. Über Zerlegungen von Mengen. Acad. Téléque Sci. Bull. Int. Cl. Sci. Math. Nat. 44 (1913), 330-343 (1944).

L'auteur appelle décomposition (Zerlegung) dans un ensemble la donnée de sous ensembles disjoints non assujettis à recouvrir tout l'ensemble. En ce qui concerne les décompositions sur un ensemble, c'est-à-dire les relations d'équivalence, l'auteur redémontre qu'elles forment un réseau (Verband) et que ce réseau est modulaire si on a la condition d'associabilité (Komplementär). Des relations d'équivalence forment une suite si chacune est compatible avec la précédente. Deux suites de relations d'équivalence sont dites complémentaires si chaque terme de l'une est associable avec chaque terme de l'autre. On peut appliquer la construction de Zassenhaus à deux telles suites. Elle donne des raffinements de même longueur réduite entre lesquels on peut définir une certaine correspondance biunivoque (verknüpfte). Ces résultats ne diffèrent pas essentiellement de ceux de P. Dubreil et M. L. Dubreil-Jacotin [J. Math. Pures Appl. (9) 18, 13-95 (1939)]. J. Kuntzmann (Grenoble).

Source: Mathematics Review

Vol.

No.

15 SEP 1962 012541
 Borůvka, Ctakar. Théorie des décompositions dans un ensemble. I. Publ. Fac. Sci. Univ. Masaryk 1946, no. 278, 37 pp. (1946). (Czech. French summary)

Des sous ensembles disjoints de G , non assujettis à recouvrir complètement G , forment une décomposition dans G . L'auteur montre que si l'on a une famille de décompositions, on peut choisir une union (plus petit recouvrement) et dans certains cas une intersection (plus grand raffinement). Un cas particulier important est celui où l'inclusion définit une correspondance biunivoque entre les sous ensembles formant le plus grand raffinement et les sous ensembles de chaque décomposition. L'auteur étudie enfin le passage d'une décomposition dans G à une décomposition dans $G \times G$.
 J. Kuntzmann (Grenoble).

Source: Mathematical Reviews.

Vol.

No. 8

BORUVKA, O.

Mathematical Reviews
Vol. 15 No. 1
Jan. 1954
Algebra

*Borůvka, Otakar. Úvod do theorie grup. [Introduction to the theory of groups.] 2d ed. Přírodovědecké Vydavatelství, Prague, 1952. 154 pp. 127 Kčs.

[For a review of the 1st edition see these Rev. 7, 510.] This second edition of Borůvka's "Introduction to the theory of groups" emphasizes still more than the first the tendency to express the fundamental theorems of abstract group theory in the language of set theory by making consistent use of theorems regarding decomposition of sets. It devotes a relatively large space to the discussion of groupoids in which the associative law of the composition of elements is not assumed. The presentation is very clear and the proofs given in all details. The book contains many exercises.
C. Loewner (Stanford, Calif.)

Borůvka, Otakar. Problems and paths of mathematics. Math. Educ.
Práce Moravskoslezské Akad. Věd Přírod., Brno 24,
155-265 (1952). (Czech. Russian summary)
This paper contains a lecture given by the author in
February 1952 at Brno. The following main points were
discussed. 1. Proofs that mathematics belongs to the natural
sciences and its relation to reality. 2. Internal and external
forces for progress and development in mathematics. 3. The
discovery and meaning of non-Euclidean geometry. 4. An
example of the meaning of recent mathematical methods in
the theory of classification. From the author's summary.

BORŮVKA, O.

differential eqs

Borůvka, O. Sur les intégrales oscillatoires des équations différentielles linéaires du second ordre. Čechoslovack. Mat. 2, 3(78), 119-255 (1953). (Russian, French summary)

Let $Q(x)$ be continuous and negative for all real x and such that all the non-trivial solutions of the equation (a) $y'' = Q(x)y$ are oscillatory, i.e. have infinitely many zeros with no finite limit point. Let $\dots < \alpha_{-1} < \alpha_0 < \alpha_1 < \dots$ be the ordered zeros of an integral $y_0(x)$ of (a). Since $y_0(x)$ is determined, except for a constant factor, by any one of its zeros, α_n ($n = \pm 1, \pm 2, \dots$) is uniquely determined by α_0 : $\alpha_n = \varphi_n(\alpha_0)$. The author calls $\varphi_n(x)$ the central dispersion (of the first kind) of index n ; $\varphi_n(x)$ is monotone increasing and belongs to C_∞ . The $\varphi_n(x)$ form a cyclic group $\mathcal{G}$ in the sense that $\varphi_n(\varphi_m(x)) = \varphi_{n+m}(x)$, $\varphi_1(x)$ being the generator, and $\varphi_0(x) = x$ the unit element. The $\varphi_{2k}(x)$ ($k = 0, \pm 1, \dots$) form an invariant subgroup $\mathcal{S}$ of $\mathcal{G}$.

OVER

Борувка, О.

Let $U(x)$, $V(x)$ and $U'(x)$, $V'(x)$ be two fundamental systems of solutions of (a). Then a relation p is set up between the integrals $Y(x) = aU(x) + bV(x)$ and $y(x) = cu(x) + dv(x)$ (a, b any real constants): $y = pY$. This leads to a relation $a = f(A)$ between the zeros A of Y and the zeros a (properly chosen) of y , which the author calls proper dispersion. A proper dispersion $f(x)$ is in C_1 and either monotone increasing ("direct") or decreasing ("indirect"). The $f_i(x)$ form a 3-dimensional group $\mathcal{G}$ with $f(x) = x$ as identity. The elements of $\mathcal{G}$ are all the solutions of the equation of third order (b) $T''/T + j^2 Q(x) = Q(x)$, $T = |f'|^{-1/n}$. The direct proper dispersions form an invariant subgroup $\mathcal{P}$ of $\mathcal{G}$ whose center is $\mathcal{C}$. The group $\mathcal{G}/\mathcal{C}$ is isomorphic to the group of real unimodular matrices of order 2. Also considered are dispersions of the second, third and fourth kind referring to the zeros and the extrema of integrals of equation (a).

M. Golomb (Lafayette, Ind.).

2/2

BERVKA O.

Bervka, O. Über eine Verallgemeinerung der Eindeutigkeitsätze für Integrale der Differentialgleichung $y' = f(x, y)$. Acta Fac. Rerum Nat. Univ. Comenian. Math. 1 (1956), 155-167. (Czech and Russian summaries)

The author proves a uniqueness theorem for the ordinary differential equation $y' = f(x, y)$. The statement of the theorem is too lengthy to be reproduced here in full. However, loosely speaking, it goes as follows: Suppose we can construct continuous functions $\varphi(x; u, v)$ and $\Phi(x; u, v)$ satisfying a number of conditions, the most important of which are (1) $\varphi(x; u, v) = 0$ if $u = v$, > 0 otherwise; (2) $\lim_{x \rightarrow \xi} \varphi(x; u(x), v(x)) = 0$ for arbitrary solutions $u(x), v(x)$ of $y' = f(x, y)$ passing through (ξ, η) ; (3) $\varphi(x; u, v) + \varphi_0(x; u, v) / (\varphi(x; u, v) + \varphi_0(x; u, v)) / f(x, v) \leq \Phi(x; u, \varphi(x; u, v))$; (4) For each solution $u(x)$ of $y' = f(x, y)$ passing through (ξ, η) , $z(x) \equiv 0$ is the only solution to $z' = \Phi(x, u(x), z)$ near $x = \xi$; then uniqueness holds for

$y' = f(x, y)$ near (ξ, η) . The theorem includes as special cases criteria of Peano, Tonnel, Bompiani, Osgood and Tamarkin, and Lipschitz. W. Littman.

On a Generalization of the Uniqueness Theorems for Integrals of the Differential Equation $y' = f(x, y)$.

BORUVKA, O.

"Matyas Lerch's work in the field of mathematical analysis."

p. 417 (Prace) Vol. 29, no. 10/11, 1957.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BORUVKA, O.

"Matyas Lerch's work on the theory of the Gamma function."

p. 455 (Prace) Vol. 29, no. 10/11, 1957.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BORUVKA, Otakar

Jubilee commemoration of the Brno Branch of the Association
of Czechoslovak Mathematicians and Physicists. Pokroky mat
fyz astr 8 no.5:305-306 '63.

BORUVKA, V.; FRYML, B.

Balancing rotors of varying stiffness. p. 582

STROJIRENSTVI (Ministerstvo tezkého strojírenství, Ministerstvo všeobecného strojírenství) Praha, Czechoslovakia, Vol. 9, no. 8, Aug. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 2, Feb. 1960

Uncl.

BORUVKA, V., ins.

Distribution of the unbalance and its effect upon the frequency characteristics of bearings. Strojirenstvi 11 no.12:899-902 D '61.

1. Statni vyskumny ustav tepelne technicky, Praha.

BORUKDIN, A.G.

LEBIDOV, Ivan Antonovich, kandidat tekhnicheskikh nauk; **BORUKDIN, A.G.**,
redaktor, inzhener; **ANIKINA, M.S.**, isdatel'skiy redaktor; **MOZHIN,**
V.P., tekhnicheskiiy redaktor.

[Technology of globoid gears]. Tekhnologiya globoidnykh peredach.
Moskva, Gos. izd-vo obr. promyshl., 1957. 107 p. (Moscow. Avia-
tsionnyi institut. Trudy, no. 77). (MIRA 10:6)
(Gearing)

TURKOVA, N.S.; BORUZDINA, M.A.

Changes in the effectiveness of heteroauxin during sulfonation.
Vest. Mosk. un. Ser. biol., pochv., geol., geog. 14 no.2:
37-47 '58. (MIRA 11:9)

1. Moskovskiy gos. universitet, Kafedra fiziologii rasteniy.
(Indoleacetic acid) (Sulfonation)

BORUZI, Lucretia, ing.

Reduction of tempering time in glass melting furnaces.
Industria Asocara 9 no.9:351-354 S '62.

BORVARO, F.

Crippled fly? Slet tud 16 no.43.1366 22 8 '61.

BORVARD, Z.

The method of sowing - according to the newsreel. Flat tud 16
no.48:1527 26 N '61.

RAAB, Kornel, dr.; BORVENDEG, Janos, dr.

Effect of Chinorto eye drops on some disorders of the menstrual cycle. Orv.Het11.105 no.10:931-932 My 17 '64.

1. Gyogyszeripari Kutato Intezet (Igazgato: Vargha, Laszlo, dr.)
es Budapesti Orvostudomanyi Egyetem, II. Szemklinika (Igazgato:
Nonay, Tibor, dr.).

L 15498-66

ACC NR: AT6007467

SOURCE CODE: HU/2505/65/026/00X/0060/0060

AUTHOR: Borvendeg, J.; Polgari, I.

ORG: Institute of Pharmacoindustrial Research, Budapest (Gyogyszeripari Kutató Intézet)

TITLE: Effect of the administration of anabolic steroids to newborn female rats on the function and morphology of the reproductive organs [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1964]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 60

TOPIC TAGS: rat, biologic reproduction, hormone, morphology

ABSTRACT:

Some published data indicate that sexual dysfunction develops in rodents following testosterone administration to the newborn animals. The disturbance consists of an ovulatory continuous estrus accompanied by sterility and changes in sexual behavior. In view of the fact that anabolic steroids have a more or less marked androgenic side effect and that they are used extensively in the treatment of newborn and premature infants, it seemed worthwhile to study the influence of these

Card 1/2

L 15498-66

ACC NR: AT6007467

compounds, when administered to the newborn, on the ovarian cycle, the morphology of the reproductive organs and the fertility of female rats. Doses from 30-1500 μ g of 19-nortestosterone phenyl propionate, delta-1-dehydro-17- α -methyl-testosterone, or testosterone propionate were injected subcutaneously into 5-day-old rats. Depending on the compound and the dose used, persistent estrus, changes in sexual behavior, sterility, cystic changes in the ovaries and an absence of corpora lutea have been observed. The phenomena were proportional to the androgenic side effect of the preparations tested.

[JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 2/2

BORVINIK, S.A., dotsent, zaveduyushchiy; POPKOVA, N.F.; SMIRDINA, Ye.A.

Comparative evaluation of methods of laboratory diagnosis of dysentery. Zhur.
mikrobiol.epid.i immun. no.7:68-71 JI '53. (MLRA 6:9)

1. Kafedra mikrobiologii Yaroslavskogo meditsinskogo instituta.
(Dysentery)

BORY, J.; JASINSKI, W.; SWIECKI, J.

Preliminary studies on modern technic of dosage of roentgen rays in neoplasms. Polski przegl. radiol. 17 no.3:135-152 1953. (GLML 25:4)

1. Of the State Cancer Institute (Director--J. Swiecki, M.D.), Gliwice.

POL/19-8-2-4/14

16(1)
AUTHOR:

Bory, J.

TITLE:

On the Relationship Between Laplace's and Carson's
Integral Transformation Grammars

PERIODICAL:

Archiwum elektrotechniki, 1959, Vol 8, Nr 2, pp 291-
300 (POL)

ABSTRACT:

The purpose of this article is to present a simple method of transition from an arbitrarily chosen Carson grammar rule to a corresponding Laplace grammar rule and vice versa. One of the few mathematicians who have dealt with this problem, the Czech Konicek, attempted to compare formulae derived separately for both grammars. He achieved only partial success, in operations dealing with time functions. He based his work on the very complicated Efros theorem. Unlike Konicek, the author has set himself the task of achieving a transition from one grammar to the other without paying any attention to the method of deriving rules for both grammars and assuming that these rules are known. The results of his work are sum-

SUBM
Card

Card 1/2

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4824.

Author : Bory, S. and Lederer, E.

Inst :

Title : A Partial Synthesis of Labdanolic Acid from
Sclareol.

Orig Pub: Croat Chem Acta, 29, No 3-4, 157-161 (1957) (in French
with a Serbo-Croatian summary),

Abstract: The methyl ester (I) of labdanolic acid (II)
has been synthesized and the correctness of the
formula proposed for II (RZhKhim, 1957, 51365,
51366) isolated from extract of *Cistus ladaniferus*
is confirmed. The oxidation of sclareol by a pre-
viously described method (M. Stoll and A. Comarmond,

Card : 1/3

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4824.

J Chem Soc, 32, 1354, 1356 (1949)) gives the alde-
hyde (III), yield 39%, which on treatment with
AgO (7.5 hrs at 10-15°) followed by treatment
with CH_3N_2 gives a mixture of methyl esters,
yield [conversion?] 82%. 3.52 gms of the latter
mixture on chromatography over a mixture of Mg
trisilicate and celite (2 : 1) yields the pyran
derivative (IV) [yield 7.899 gm, mp 109-111°
(from CH_3OH), $[\alpha]_D^{25} + 18.1^\circ$ (c = 1.4)]
and the methyl esters of the unsaturated hydroxy
acids (Va) [yield 0.260 gm, mp 132-134° (from
petroleum ether), $[\alpha]_D^{25} + 42.1^\circ$ (c = 1.13)] and
(Vb), yield 0.170 gm, mp 99-101° (from petroleum
ether), $[\alpha]_D^{25} + 1.1^\circ$ (c = 1.17). The hydro-

Card : 2/3

58

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

G

Abs Jour: Ref Zhur-Khin., No 2, 1959, 4824.

genation of Va and Vb on Pt in alcohol followed
by chromatography on the above-indicated absorbent
gives I $\sqrt{\text{yield 0.027 gm from 223 mg Vb, mp I}}$
 $72-74^{\circ}$ (from petroleum ether), $[\alpha]_D^{20} -7 \pm 1^{\circ}$
($c = 4.86$) and its diastereoisomer (Ia), yield
0.039 gm from 223 mg Vb, mp Ia $74-75^{\circ}$ (from pe-
troleum ether), $[\alpha]_D^{20} +2 \pm 1^{\circ}$ ($c = 5.67$).
In the opinion of the authors, the CH_3 group at
 C_{13} in I has the L-configuration. The $[\alpha]_D^{20}$
were measured in CHCl_3 . For the preceding con-
munication see RZhKhin, 1957, 74524. Insert fi-
gures from text page 230 -- S. Kustova.

Card : 3/3

BORYACHEK, A. F.

Boryachek, A. F. - "The work of the Laboratory for Soda and Bases", Trudy Vsesoyuz. in-ta sodovoy prom-sti, Vol. V, 1949, p. 9-17, - Bibliog: p. 17.

SO: U-4631, 16 Sept. 53 (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

BORYACHEK, A. F.

Boryachek, A. F. and Ovechkin, Ye. K., and Urazovskiy, S. S.
"On the theory and practice of brine cleansing", Trudy

Vsesoyuz. in-ta sodovoy prom-sti, Vol. V, 1949, p. 71-136,
- Bibliog: 14 items.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

BORYACHEK, A.F.

USSR

The 100° isotherm of the system: sodium, potassium, carbonates, sulfates and water. A. F. Boryachek, N. N. Drozin, Z. K. Zubakhina, and M. T. Kutyshin. *Zhur. Prikl. Khim.* 28, 100-4; *J. Appl. Chem. (U.S.S.R.)* 28, 91-3 (1955) (Engl. translation).—The 100° equil. isotherm of the 4-component system Na, K || SO₄, CO₃ was detd. by the thermal method; equil. was reached within 2-3 days; samples of soln. and solid phases were withdrawn for analysis thermostatically. A diagram of the system including the data of Blasdale (cf. *C.A.* 18, 493) and those of Burke and de Roop (cf. *Teepie*, *C.A.* 23, 3055) shows that new solid phases are not developed at higher temps. The fields of crystn. are not changed for Na₂SO₄, Na₂SO₄·3K₂SO₄; they are increased for Na₂CO₃·H₂O, Na₂CO₃·K₂CO₃, and Na₂CO₃·2Na₂SO₄; and decreased for K₂SO₄ and K₂CO₃.
I. Bencowitz

BORYACHEK, A.F.

BORYACHEK, A.F.; DROZIN, N.N.; ZUBAKHINA, Z.K.; KUTSYNA, M.I.

The solubility isotherm in the system Na_2CO_3 -- NaHCO_3 -- Na_2SO_4 -- H_2O
at 100°. Zhur.neorg.khim. 2 no.7:1655-1657 J1 '57. (MIRA 10:11)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii.
(Curves, Isothermic) (Solubility) (Systems (Chemistry))

BORIACHEK, A.F.

Utilization of sodium chloride in soda plants as a measure for
reducing the pollution of the northern Donets. Gig. 1 san. 26
no.5:64-66 My '61. (MIRA 15:4)

1. Iz Nauchno-issledovatel'skogo instituta osnovnoy khimii
Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii.
(WATER—POLLUTION) (SODIUM CHLORIDE)

BORYACHOK, G. V.

"Experiments in Vegative Hybridization of Animals." (p. 233) by Boryachok, G. V. and Hizhnik.

SO: Journal of General Biology XII (Zhurnal Obshchei Biologii) Vol. XII, No.4, 1951.

BORYACHOK-NIZHNIK, G.V.

~~Results of vegetative hybridization of animals.~~ Zh. obsh. biol.
(CLML 20:11)
12 no.4:233-251 July-Aug 1951.

1. All-Union Scientific-Research Institute of Animal Husbandry.

BORYAK, P.M.

Circulation rate in thyrotoxicosis patients following treatment with
6-methylthiouracil. Vrach. delo no.8:126-127 Ag '60. (MIRA 13:9)

1. Kafedra gospi'tal'noy terapii L'vovskogo meditsinskogo instituta.
(THYROID GLAND—DISEASES) (URACIL)

BORYAK, P.M.; PIRALOV, G.V.

Some hemodynamic indices in patients with cardiovascular insufficiency during intravenous drip infusion of strophanthin; preliminary report. Nauch.trudy L'vov.obl.terap.ob-va no.1:250-251 '61. (MIRA 16:5)

1. Kafedra gosital'noy terapii L'vovskogo meditsinskogo instituta (zav. kafedroy - dotsent I.I. Markov).
(CARDIOVASCULAR SYSTEM—DISEASES) (STROPHANTHIN)
(INJECTIONS, INTRAVENOUS)

BORYAK, P.M.

Importance of some symptoms of lesions of the cardiovascular
system in the diagnosis of the initial forms of thyrotoxicosis.
Vrach. delo no.2:149 F'64 (MIRA 17:4)

1. Kafedra gosital'noy terapii L'vovskogo meditsinskogo insti-
tuta.